SAFETY DATA SHEET

MF ConcreteFlow

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

MF ConcreteFlow

▼Unique formula identifier (UFI)

JM59-00WK-A00H-PDCX

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

filler

Uses advised against

No special

1.3. Details of the supplier of the safety data sheet

Company and address

MURFACE GmbH
Birkenweg 8
D-33129 Delbrück
Germany
Tel. +49 52 50 - 4 19 93 00

E-mail

mail@murface.de

Revision

28-01-2022

SDS Version

2.0

Date of previous version

2022-01-24 (1.0)

1.4. Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463
See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s)

Signal word

Danger

Hazard statement(s)

May cause an allergic skin reaction. (H317)
Causes serious eye damage. (H318)

Safety statement(s)

General

-

▼Prevention

Contaminated work clothing should not be allowed out of the workplace. (P272)

Avoid breathing dust. (P261)

Wear eye protection/protective clothing. (P280)

▼Response

Immediately call a POISON CENTER/doctor. (P310)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Storage

-

Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

Hazardous substances

Portland Cement

Calcium dihydroxide

2.3. Other hazards

Additional labelling

Not applicable

Additional warnings

The product contains quartz; working processes in which respirable quartz dust can be developed are covered by the EU cancer Regulation.

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
kristalline Kieselsäure (ø >10µ)	CAS No.: 14808-60-7 EC No.: 238-878-4 REACH: Index No.:	≥ 25 - < 50%		
Portland Cement	CAS No.: 65997-15-1 EC No.: 266-043-4 REACH: Index No.:	≥ 2,5 % - < 4,99%	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Dam. 1, H318 STOT SE 3, H335	
Quartz (SiO2)	CAS No.: 14808-60-7 EC No.: 238-878-4 REACH: Index No.:	≥0,1 - <0,25%	STOT RE 1, H372	
Calcium dihydroxide	CAS No.: 1305-62-0	>= 0,05 % - < 0,1%	Skin Irrit. 2, H315 Eye Dam. 1, H318	[1]

	EC No.: 215-137-3 REACH: Index No.:		STOT SE 3, H335	
vinyl acetate	CAS No.: 108-05-4 EC No.: 203-545-4 REACH: Index No.: 607-023-00-0	>= 0,00015 % - < 0,0015%	Flam. Liq. 2, H225 Acute Tox. 4, H332 Carc. 2, H351 STOT SE 3, H335	[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

IF ON SKIN: Wash with plenty of water and soap.
Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Not applicable

4.2. Most important symptoms and effects, both acute and delayed

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:
Get immediate medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Collect spills carefully. Moist the material with water in order to prevent the formation and propagation of dust.
To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 on “Disposal considerations” in regard of handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Powder trickling out onto the floor or onto other containers must be prevented.

Recommended storage material

Keep only in original packaging.

Storage temperature

Room temperature 18 to 23°C (Storage on stock, 3 to 8°C)

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

—
Portland Cement
Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

—
Calcium dihydroxide
Long term exposure limit (8 hours) (mg/m³): 5(inhalable)/1(respirable)
Short term exposure limit (15 minutes) (mg/m³): 4(respirable)

—
vinyl acetate
Long term exposure limit (8 hours) (ppm): 5
Long term exposure limit (8 hours) (mg/m³): 17,6
Short term exposure limit (15 minutes) (ppm): 10
Short term exposure limit (15 minutes) (mg/m³): 35,2

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

Product/substance	vinyl acetate
DNEL	0,42 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

Product/substance	vinyl acetate
DNEL	35,2 map1
Route of exposure	Inhalation
Duration	Short term – Systemic effects - Workers

Product/substance	vinyl acetate
DNEL	17,6 map1
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

Product/substance	vinyl acetate
DNEL	17,6 map1
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers

Product/substance	vinyl acetate
DNEL	35,2 map1
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers

PNEC

Product/substance	Calcium dihydroxide
PNEC	0,0035 mg/kg
Route of exposure	Soil
Duration of Exposure	

Product/substance	Calcium dihydroxide
PNEC	0,0067
Route of exposure	Marine water sediment
Duration of Exposure	

Product/substance	Calcium dihydroxide

PNEC	0,067 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	

Product/substance	Calcium dihydroxide
PNEC	0,0016 mg/L
Route of exposure	Marine water
Duration of Exposure	

Product/substance	Calcium dihydroxide
PNEC	0,016 mg/L
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	vinyl acetate
PNEC	0,016 mg/L
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	vinyl acetate
PNEC	0,0016 mg/L
Route of exposure	Marine water
Duration of Exposure	

Product/substance	vinyl acetate
PNEC	0,126 mg/kg
Route of exposure	MAP2
Duration of Exposure	

Product/substance	vinyl acetate
PNEC	0,0067 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	

Product/substance	vinyl acetate
PNEC	0,0035 mg/kg
Route of exposure	Soil
Duration of Exposure	

Product/substance	vinyl acetate
PNEC	0,067 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

If possible, avoid working processes where respiratory quartz dust may be developed.
Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

In connection with work processes in which respirable quartz dust can be developed e.g. when cutting and drilling in concrete, extracted air must not be recycled according to EU Cancer Regulation.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements

Individual protection measures, such as personal protective equipment

▼Generally

Use only CE marked protective equipment.

No specific requirements

Respiratory Equipment

Type	Class	Colour	Standards
No special when used as intended.			

Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn	-	-	

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
No special when used as intended	-	-	-

Eye protection

Type	Standards	
Safety glasses	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Powder

Colour

Various colours

Odour / Odour threshold

Characteristic

pH

12

▼Density (g/cm³)

1.5

Kinematic viscosity

Does not apply to solids.

Particle characteristics

Testing not relevant or not possible due to nature of the product.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to nature of the product.

Softening point/range (waxes and pastes) (°C)

Does not apply to solids.

Boiling point (°C)

Does not apply to solids.

Vapour pressure

Testing not relevant or not possible due to nature of the product.

Relative vapour density

Does not apply to solids.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Does not apply to solids.

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Lower and upper explosion limit (% v/v)

Does not apply to solids.

Solubility

Solubility in water

Soluble

n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

9.2. Other information

Other physical and chemical parameters

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

No special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	vinyl acetate
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	3500 mg/kg
Other information	

Product/substance	vinyl acetate
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	7440 mg/kg
Other information	

Product/substance	vinyl acetate
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	15,8 mg/L
Other information	

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Causes serious eye damage.

Respiratory sensitisation
Based on available data, the classification criteria are not met.

Skin sensitisation
May cause an allergic skin reaction.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive toxicity
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties
No special

Other information

vinyl acetate has been classified by IARC as a group 2B carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Calcium dihydroxide
Test method	
Species	Fish
Compartment	
Duration	28 days
Test	NOEC
Result	0,16 mg/L
Other information	

Product/substance	Calcium dihydroxide
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	LC50
Result	12,7 mg/L
Other information	

Product/substance	Calcium dihydroxide
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	12,6 mg/L
Other information	

Product/substance	Calcium dihydroxide
Test method	
Species	Daphnia
Compartment	
Duration	21 days
Test	NOEC
Result	0,317 mg/L
Other information	

Product/substance	vinyl acetate
Test method	
Species	Daphnia
Compartment	
Duration	21 days
Test	NOEC
Result	0,317 mg/L
Other information	

Product/substance	vinyl acetate

Test method	
Species	Fish
Compartment	
Duration	28 days
Test	NOEC
Result	0,16 mg/L
Other information	

Product/substance	vinyl acetate
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	12,6 mg/L
Other information	

Product/substance	vinyl acetate
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	12,7 mg/L
Other information	

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties
No special

12.7. Other adverse effects
No special

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product is not covered by regulations on dangerous waste.
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

▼EWC code

17 01 01 Concrete

Specific labelling
Not applicable

Contaminated packing
Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

14.1. - 14.4.

Not dangerous goods according to ADR, IATA and IMDG.

ADR/RID

Not applicable

IMDG

Not applicable

MARINE POLLUTANT

No

IATA

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements

SEVESO - Categories / dangerous substances

Not applicable

Additional information

Not applicable

Sources

The Management of Health and Safety at Work Regulations 1999

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

CLP Regulation (EC) No 1272/2008, as retained and amended in UK law.

EC-Regulation 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H225, Highly flammable liquid and vapour.

H315, Causes skin irritation.

H317, May cause an allergic skin reaction.

H318, Causes serious eye damage.

H332, Harmful if inhaled.

H335, May cause respiratory irritation.

H351, Suspected of causing cancer.

H372, Causes damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit.
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVCB = Complex hydrocarbon substance
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

▼The safety data sheet is validated by

Murface

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en